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## HP Advanced HPE Storage Architect Solutions Written Exam Sample Questions (Q38-Q43):

### NEW QUESTION # 38

A customer has a mix of applications for VMware VMs, HPE containers, and bare metal solutions. The customer is an early adopter of containers and is already using HPE Ezmeral Runtime Enterprise. They have the following criteria:

- \* The customer runs applications on VMware VMs.
- \* The customer wants to run multiple workloads on bare metal, VMs, and containers.
- \* The customer wants a fully managed hybrid multi-cloud environment.

\* The customer wants to integrate into DevOps toolchains for immediate productivity. Which solution will best fit the customer's needs?

- **A. HPE Private Cloud Enterprise**
- B. HPE Private Cloud Business Edition with HPE VME
- C. HPE GreenLake for VCF
- D. HPE GreenLake for Microsoft Azure Stack HCI

**Answer: A**

Explanation:

The customer's requirements specify a need for a fully managed environment that supports a "multi-gen" IT stack, including virtual machines (VMs), containers, and bare metal servers, all while providing a cloud-like operational experience for DevOps. HPE Private Cloud Enterprise (PCE) is the only solution in the portfolio designed specifically to meet all these criteria in a single, integrated managed service.

HPE Private Cloud Enterprise provides an automated, self-service cloud experience for developers and IT operators. It natively supports the provisioning and lifecycle management of bare metal compute resources, which is a key requirement for the customer's diverse workload environment. For containers, PCE integrates with standard Kubernetes orchestration, and for virtual machines, it supports multiple hypervisors including VMware. A critical differentiator is that PCE is delivered as a managed service, meaning HPE handles the underlying infrastructure management (updates, patching, and health), allowing the customer to focus on application development and DevOps productivity.

Options A and B are focused on specific stacks (VMware Cloud Foundation and Azure Stack HCI, respectively) which do not offer the same native, unified bare-metal management and multi-workload breadth as PCE. HPE Private Cloud Business Edition (Option C) is a self-managed solution intended for smaller-scale VM environments and does not provide the "fully managed" experience or the native bare-metal compute service required by this enterprise customer. PCE's inclusion of HPE Morpheus Enterprise software further ensures the "DevOps toolchain" integration requirement is met by providing a powerful self-service engine for infrastructure-as-code.

#### NEW QUESTION # 39

A customer has a variety of HPE Alletra arrays running various VM workloads managed by VMware vCenter. These arrays are managed with HPE GreenLake. The customer is concerned they are not getting the best efficiency from the HPE storage arrays. You access CloudPhysics in GreenLake to get an overall view of the hosts and VMs that have the biggest impact on the customer's current environment. Which card should you first examine to see this information?

- **A. Simulator for VM Rightsizing**
- B. Host Analysis
- C. Summary for VMware vCenters
- D. Shared Storage Analysis

**Answer: A**

Explanation:

HPE CloudPhysics is a SaaS-based analytics platform integrated into the HPE GreenLake Data Services Cloud Console (DSCC) that provides deep insights into virtualized infrastructure. It uses a visual metaphor called "cards" to present focused analytics for specific use cases.

When a customer is concerned about storage efficiency and the overall impact of VM workloads, the Simulator for VM Rightsizing (also known as the VM Rightsizing Simulator) is the primary tool for analysis. This card specifically identifies inefficiencies such as over-provisioned or "oversized" virtual machines. By analyzing the actual resource utilization (CPU, memory, and I/O) versus the allocated capacity, the rightsizing simulator can highlight which VMs are consuming excessive resources without operational need. Reviewing this card first is critical because storage efficiency is often compromised by "virtual sprawl" and bloated VM templates that waste disk space and IOPS on the backend HPE Alletra arrays. While the Shared Storage Analysis card (Option C) provides visibility into datastore contention and performance, the Simulator for VM Rightsizing provides the most direct answer to "efficiency" concerns by identifying the exact VMs that can be trimmed down to reclaim stranded capacity. Correcting VM sizing at the hypervisor level is often the most effective first step in optimizing the performance and capacity return on investment of the underlying storage hardware.

#### NEW QUESTION # 40

Which HPE system can be integrated into a factory-built HPE Qumulo solution for a customer?

- A. HPE ProLiant 360
- B. HPE Alletra 5000
- C. HPE Apollo 4200
- D. HPE Apollo 4500

**Answer: C**

Explanation:

The HPE Solutions for Qumulo are a result of a strategic partnership designed to provide a high-performance, scale-out NAS (Network Attached Storage) platform for unstructured data. According to the HPE Solutions with Qumulo Reference Architecture, the primary hardware platform utilized for these factory-built, integrated solutions is the HPE Apollo 4000 series, specifically the HPE Apollo 4200.

The Apollo 4200 is chosen for this role because it is a density-optimized, storage-centric server that provides an ideal balance of compute and massive internal storage capacity within a standard 2U rack footprint.

Architecturally, the Apollo 4200 supports an "SSD-first" hybrid configuration or an all-flash configuration, which aligns perfectly with Qumulo's file system requirements. Qumulo's software uses the SSDs for a high-speed metadata layer and write-cache, while utilizing high-capacity HDDs for the data plane, ensuring that even with billions of files, the system maintains near-flash performance.

While the HPE ProLiant DL325 is also used for specific all-NVMe nodes in the Qumulo portfolio, the Apollo 4200 remains the foundational building block for the hybrid and archive nodes that comprise the bulk of enterprise deployments. The HPE Apollo 4500 (Option D) is a 4U system that, while part of the Apollo family, is not the standard integrated platform for the mainstream Qumulo joint offering. The HPE Alletra

5000 (Option B) is a block-storage-focused platform derived from the Nimble lineage, and the ProLiant DL360 (Option C) is a general-purpose 1U compute server that lacks the internal drive density required for a high-capacity scale-out file storage solution. By selecting the Apollo 4200, customers benefit from a pre-validated, factory-integrated solution that simplifies the deployment of massive file lakes for workloads like video surveillance, medical imaging, and big data analytics.

#### NEW QUESTION # 41

An HPE Partner is sizing an Alletra MP B10000 array for a customer using the HPE Ninja Sizer online tool.

When tuning the solution, the partner is not getting the best read and write performance from the array.

Use your cursor to place a + where the partner can click in the web GUI to begin to determine how to correct this Issue and appropriately size the solution for the customer.

**Answer:**

Explanation:

Explanation:

Performance Estimation

The HPE Ninja Sizer is a vital tool for storage architects to model the "Performance vs. Capacity" trade-offs of the HPE Alletra MP B10000 disaggregated architecture. In this scenario, the current configuration (as shown in the exhibit) consists of 4 nodes and 1 JBOF (with 8 drives of 15.36TB each).

To address poor read/write performance in Ninja Sizer, the partner must analyze the Performance Estimation pane. By clicking the chart/graph icon in the bottom right of the summary dashboard, the tool opens a detailed breakdown of the IOPS, throughput, and latency limits for the selected hardware. In a disaggregated shared-everything (DASE) architecture like the Alletra MP, performance is a direct function of the "node-to-drive" ratio. A configuration with only 8 drives (as seen in image\_6491d0.png) may be "disk-bound," meaning the controllers have more compute power than the backend drive count can support in parallel.

By accessing the performance details, the partner can see if the bottleneck is at the node level (CPU/Cores) or the drive level (Flash bandwidth). To "correct this issue" and optimize the sizing, the partner would typically need to increase the drive count within the JBOF to allow for more parallel I/O streams or add additional JBOFs to scale the backend bandwidth. The Ninja Sizer provides real-time feedback; as the partner adds more

15.36TB drives, they will see the Performance Estimation bars move from yellow/red toward green, indicating an appropriately balanced solution that meets the customer's latency and throughput SLAs.

#### NEW QUESTION # 42

Match the fibre channel topology to its use case. Each answer will be used once.

**Answer:**

Explanation:

Explanation:

\* Meshed fabric: Has many-to-many connectivity and requires high performance.

\* Cascaded fabric: Data access is localized with servers and storage connected to the same switch.

\* Core-edge fabric: Data access is a mix of local and distributed.

\* Ring fabric: Accommodates diverse geographic conditions and location.

In the design of modern Storage Area Networks (SANs), selecting the right topology is critical for balancing performance, scalability, and cost. Each of these Brocade/HPE B-series architectures serves a specific workload profile:

**Meshed Fabric:** This design provides the highest level of redundancy and performance by connecting switches in an "any-to-any" pattern. Because every switch is connected to multiple other switches, it provides many-to-many connectivity and minimized "hop counts," making it ideal for high-performance environments where application traffic is unpredictable and widely distributed.

**Cascaded Fabric:** The simplest topology, where switches are connected in a serial or daisy-chain fashion. It is most effective in small environments where data access is localized-meaning the server and the storage it needs are physically connected to the same switch, minimizing Inter-Switch Link (ISL) traversal.

**Core-Edge Fabric:** The standard for enterprise data centers. Servers are connected to "Edge" switches, and storage is connected to a high-capacity "Core". This allows for a mix of local and distributed data access.

Large enterprises use this to scale easily by adding edge switches without disrupting the core storage connectivity.

**Ring Fabric:** By connecting switches in a closed loop, this topology is designed to accommodate diverse geographic conditions. If a single link between two locations fails, traffic can be re-routed the other way around the ring. This provides a cost-effective way to link multiple sites or campus buildings while maintaining fabric integrity.

## NEW QUESTION # 43

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